

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets

(11)



EP 0 936 753 A2

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:
18.08.1999 Bulletin 1999/33

(51) Int Cl. 6: **H04B 7/005**

(21) Application number: **99301042.0**

(22) Date of filing: **12.02.1999**

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **13.02.1998 FI 980343**

(71) Applicant: **NOKIA MOBILE PHONES LTD.
02150 Espoo (FI)**

(72) Inventors:

• **Laakso, Janne
00330 Helsinki (FI)**

- **Jantti, Riku
00200 Helsinki (FI)**
- **Rinne, Mika
02320 Espoo (FI)**

(74) Representative: **Jeffery, Kendra Louise et al
Nokia IPR Department
Nokia (UK) Limited
Summit Avenue
Southwood
Farnborough Hampshire GU14 0NZ (GB)**

(54) Power control method for a CDMA system

(57) In connection with the determination of the transmit power of a beginning transmission there is also determined, in the method according to the invention, suitable output powers for other transmissions, so that the entity formed by all controlled transmissions is as close to the optimum as possible already at the beginning of a new frame. The method according to the invention takes into consideration the effect of a beginning transmission on other transmissions. The method according to the invention further takes into consideration changes in the conditions during the previous frame by including the control history of the fast power control as initial information of the calculation made during the re-determination of the output powers, for instance as a suitable statistical quantity of the transmission history of each transmission, for instance as an average over a certain period.

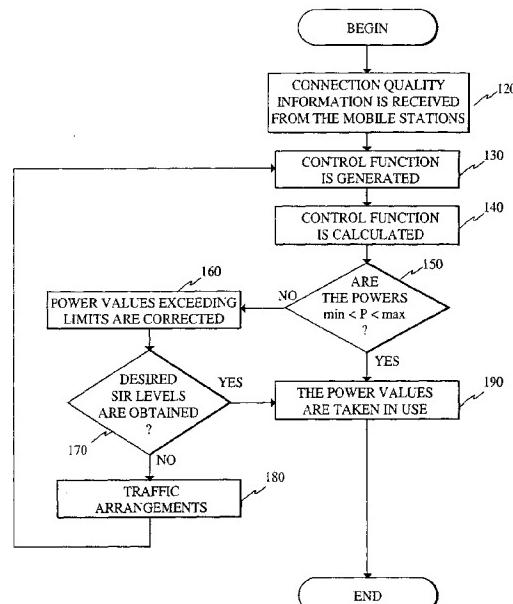


Fig. 2